

IOWA DEPARTMENT OF TRANSPORTATION

To Iowa Highway Research Board
Attention Regular and Alternate Members

Date July 21, 2011
Ref. No. 080.31

From Mark Dunn
Office Research and Technology Bureau
Subject Board Meeting on July 29, 2011

The July meeting of the Iowa Highway Research Board will be held on **Friday, July 29, 2011, starting at 9:00 a.m. in the East/West Materials Conference Rooms at the Iowa Department of Transportation, 800 Lincoln Way, Ames, Iowa.**

AGENDA

1. **Agenda review/modification**
2. **Minutes Approval from the May 20, 2011 meeting**
3. **FINAL REPORT TR-575, "Embedded (MEMS) Micro-Electromechanical Sensors & Systems for Monitoring Highway Structures & for Infrastructure Management,"** Halil Ceylan, Iowa State University/InTrans (\$100,000) (15 mins) – [This project was funded under the IHRB Innovative Projects Program]
4. **PROPOSAL for Additional Funding, LTAP Bridge Inspection Training Program,** Keith Knapp, Iowa State University/InTrans (\$3,698) (15 mins)
5. **PROPOSAL TR-575 Phase II, " Development of a Wireless MEMS Multifunction Sensor System and Field Demonstration of Embedded Sensors for Monitoring Concrete Pavements",** Halil Ceylan, Iowa State University/InTrans (\$248,959) (15 mins)
6. **PROPOSAL, "Bridge Damage Detection: Integration of Structural Health Monitoring System Concepts and Components – A Statewide Collaboration",** Terry Wipf, Iowa State University/InTrans (\$303,433) (15 mins)
7. **First Round RFP Review and Discussion FY 09-10** (45 mins)
 - a. IHRB-11-01, Development of Bio-Based Polymers for Use in Asphalt
 - b. IHRB-11-02, Optimizing Pavement Base, Subbase, and Subgrade Layers for Cost and Performance on Local Roads
 - c. IHRB-11-03, Reflective Crack-Mitigation Guide for Asphalt
 - d. IHRB-11-04, Preventing Random Cracking through Proper Design and Concrete Mixes
 - e. IHRB-11-05, Pilot Project for a Hybrid Road-Flooding Forecasting System on Squaw Creek
8. **2011 County Engineer's Focus Group Summary and Discussion of County Research Topics,** Vanessa Goetz, Secondary Road Research Engineer, Iowa DOT (15 mins)
9. **New business**
10. **Adjourn**

The next meeting of the Iowa Highway Research Board will be held on Friday, September 30, 2011, at 9:00 a.m. in the East/West Materials Conference Room at the Iowa DOT.